

CALIFORNIA

Science and Engineering Profile

	CA	U.S.	Rank		CA	U.S.	Rank
Doctoral scientists, 1995	57,927	453,928	1	Total R&D performance, 1995 (millions)	\$36,133	\$177,210	1
Doctoral engineers, 1995	13,900	86,738	1	Industry R&D, 1995 (millions)	\$28,710	\$130,332	1
S&E doctorates awarded, 1996	3,385	27,230	1	Academic R&D, 1995 (millions)	\$2,594	\$21,606	1
of which, in engineering	23%	23%		of which, in life sciences	57%	55%	
in life sciences	21%	25%		in engineering	13%	16%	
in psychology	17%	13%		in physical sciences	12%	10%	
S&E postdoctorates, 1995	6,493	35,379	1	Higher education current-fund expenditures, 1995 (millions)	\$20,741	\$182,602	1
in doctorate-granting institutions							
S&E graduate students, 1995	43,755	436,328	1	Number of SBIR awards, 1990-1996	6,021	26,399	1
in doctorate-granting institutions				Patents issued to state residents, 1996	10,473	61,099	1
Population, 1996 (000s)	31,878	269,067	1	Gross state product, 1994 (billions)	\$875.7	\$6,876.0	1
Civilian labor force, 1996 (000s)	15,596	135,528	1	of which, agriculture	2%	2%	
Personal income per capita, 1996	\$25,144	\$24,231	13	manufacturing, mining, construction	18%	23%	
Federal spending				transportation, communication, utilities	7%	9%	
Total expenditures, 1996 (millions)	\$157,448	\$1,368,858	1	wholesale and retail trade	16%	16%	
R&D obligations, 1995 (millions)	\$12,704	\$67,080	1	finance, insurance, real estate	23%	19%	
				services	22%	20%	
				government	12%	13%	

Rankings and totals are based on data for the 50 states, D.C., and Puerto Rico.

Data on S&E postdoctorates and S&E graduate students include health fields.

Federal Obligations for Research and Development in California by Agency and Performer: Fiscal Year 1995

[Thousands of Dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
Total, all agencies	12,703,572	1,843,729	2,114,606	6,685,458	1,666,792	361,960	31,027	1
Department of Agriculture	76,788	55,432	0	0	21,039	317	0	3
Department of Commerce	86,514	14,161	75	62,180	9,335	541	222	2
Department of Defense	7,272,250	1,424,282	197,851	5,352,911	255,735	41,471	0	1
Department of Energy	1,058,345	5,147	849,410	107,416	80,485	6,184	9,703	2
Dept. of Health & Human Services	1,305,366	4,274	32,631	119,258	869,400	275,580	4,223	2
Department of the Interior	45,125	40,680	160	1,139	2,826	320	0	3
Department of Transportation	33,854	8,096	277	6,737	3,149	1,500	14,095	6
Environmental Protection Agency	25,367	0	0	8,399	13,690	742	2,536	6
Nat'l Aeronautics & Space Admin.	2,503,332	291,360	1,033,819	998,238	158,817	20,850	248	1
National Science Foundation	296,631	297	383	29,180	252,316	14,455	0	1
State rank	1	3	1	1	1	2	2	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable